POTASSIUM HYDROXIDE FLAKES

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MOLYCHEM

Product Code : 17220

1. I	dentification of the sub	stance/mixture and of the company/undertaking	
	Product identifier		
	Trade name	: POTASSIUM HYDROXIDE FLAKES	
	Product code	: 17220	
	Identification of the pr		
	CAS No	: 1310-58-3	
1.2.		s of the substance or mixture and uses advised against	
	Identified uses	: Laboratory chemicals, Manufacture of substances	
1.3.	Details of the supplier		
	Company identificatio		
	с с	Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor,	
		Mumbai – 400 002 (INDIA)	
		Tel:+91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442.	
		Email : info@molychem.net	
		Works: Plot No. B/9, Badlapur M.I.D.C., OPP. Shobhavat	
		Textile Co.,Kulgaon, Badlapur (E), DistThane-421 503.	
1.4	Emergency telephone n		
	Emergency number	: +91 22 4066 8111 (10:00am - 6:00 pm)	
	2		
2. Н	lazards identification –I)SD	
	Classification of the sul		
	Corrosive to Metals, (Ca		
	Acute toxicity, (Category 4) H302: Harmful if swallowed.		
	Acture toxicity, (Category 4)H302. Hamiltin in swahowed.Skin corrosion, (Sub-category 1A)H314: Causes severe skin burns and eye damage.Serious eye damage, (Category 1)H318: Causes serious eye damage.		
	Serious eye dunnage, (ed	tegory 1) 11510. Cuuses serious eye dunhage.	
2.2.	Label elements		
		ulation (EC) No 1272/2008	
	Pictogram		
	11000 81 1111		
	Signal Word	Danger	
	Hazard Statements	Danger	
	H290	May be corrosive to metals.	
	H302	Harmful if swallowed.	
	H314	Causes severe skin burns and eye damage.	
	Precautionary Statement		
	P234	Keep only in original packaging.	
	P260	Do not breathe dust.	
	P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.	

Material Safety Da		MOLYCHEM	1
POTASSIUM HYDROXIDE F	LAKES	VERSION : 04	
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P301 + P312 P303 + P361 + P353 P305 + P351 + P338 Supplemental Hazard Statements	IF ON SKIN (or h skin with water. IF IN EYES: Rinse	,	contaminated clothing. Rinse veral minutes. Remove contact
bioacci		ains no components consider PBT), or very persistent and v	ed to be either persistent, very bioaccumulative (vPvB) a
Composition/information1 SubstancesSynonymsSynonymsFormulaHKCMolecular weight : 56.11CAS-No.: 1310EC-No.: 215-1	stic potash) l g/mol -58-3		
Component		assification	Concentration
caustic potash CAS-No. 1310-58-3 EC-No. 215-181-3 Index-No. 019-002-00-8	Skin (Skin (1; H2 H318 Cond >= 5 H31 Com %: S - < 2 H31	Corr. 1; Acute Tox. 4; Corr. 1A; Eye Dam. 290, H302, H314, 3 centration limits: 5 %: Skin Corr. 1A, 4; 2 - < 5 %: Skin : 1B, H314; 0,5 - < 2 Skin Irrit. 2, H315; 0,5 2 %: Eye Irrit. 2, 9; >= 0,5 %: Met. : 1, H290;	<= 100 %
 First aid measures Description of first aid General advice First aiders need to prote If inhaled 		v this material safety data shee	et to the doctor in attendance.

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In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

If swallowed

After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

4.2. Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3. Indication of any immediate medical attention and special treatment needed No data available

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2. Special hazards arising from the substance or mixture

Potassium oxides Not combustible. Ambient fire may liberate hazardous vapours.

5.3. Advice for fire-fighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Gives off hydrogen by reaction with metals.Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2. Environmental precautions

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

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Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4. Reference to other sections For disposal see section 13.

7. Handling and storage

7.1. Precautions for safe handling

For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

No metal containers.

Tightly closed.

Dry. Absorbs carbon dioxide (CO2) from air.

Air sensitive. strongly hygroscopic

Storage class

Storage class (TRGS 510): 8B: Non-combustible, corrosive hazardous materials

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. Exposure controls/personal protection

8.1. Exposure controls

4	
Personal protection	: Avoid all unnecessary exposure.
Respiratory protection	: Wear approved mask.
Hand protection	: Wear protective gloves.
Skin protection	: Wear suitable protective clothing.
Eye protection	: Chemical goggles or safety glasses.
Others	: When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits : No data available.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	flakes
Color	white
Odor	odorless
Melting	Melting point/ range: 361 °C - lit
point/freezing point	
Initial boiling point	1.327 °C at 1.013 hPa
and boiling range	
Flammability (solid, gas)	The product is not flammable.
Upper/lower	No data available

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flammability or explosive limits Flash point

explosive limits	
Flash point	Not applicable
Autoignition temperature	No data available
Decomposition temperature	No data available
pH	ca.13.5 at 5.6 g/l at 25 °C
Viscosity	Viscosity, kinematic : No data available
	Viscosity, dynamic : No data available
Water solubility	1.130 g/l at 20 °C - completely soluble
Partition coefficient:	Not applicable for inorganic substances
n-octanol/water	No data available
Vapor pressure	1 hPa at 719 °C
Density	2.04 g/cm3 at 20 °C
Relative density	No data available
Relative vapor density	No data available
Particle characteristics	No data available
Explosive properties	No data available
Oxidizing properties	None
Other information	

Oxidizing properties 9.2. Other information No data available

10. Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is chemically stable under standard ambient conditions (room temperature). Heat of solution is very high, and with limited amounts of water, violent boiling may occur

10.3. Possibility of hazardous reactions

No data available 10.4. Conditions to avoid

> Do not heat above melting point. no information available

10.5. Incompatible materials No data available

10.6. Hazardous decomposition products In the event of fire: see section 5

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified

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Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Causes severe skin burns.
	pH: 13.5 at 25 °C
Serious eye damage/irritation	: Assumed to cause serious eye damage
	pH: 13.5 at 25 °C
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: No data available
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

12. Ecological information

12.1. Toxicity

Toxicity to fish

static test LC50 - Gambusia affinis (Mosquito fish) - 80 mg/l - 96 h Remarks: (ECOTOX Database)

12.2 Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

No data available **12.4 Mobility in soil**

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

13. Disposal considerations

13.1. Waste treatment methods

No data available

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<u>14. Transport information</u>				
14.1. UN number				
ADR/RID: - 1813	IMDG : 1813	IATA: 1813		
14.2. UN proper shipping name				
ADR/RID :	POTASSIUM HYDROXIDE, SOLID			
IMDG:	POTASSIUM HYDROXIDE, SOLID			
IATA:	Potassium hydroxide, solid			
14.3. Transport hazard class(es)				
ADR/RID : 8	IMDG:8	IATA : 8		
14.4. Packaging group	14.4. Packaging group			
ADR/RID : II	IMDG : II	IATA : II		
14.5 Environmental hazards				
ADR/RID : no	IMDG : Marine pollutant: no	IATA : no		
14.6 Special precautions for user				
Tunnel restriction code : (E				
Further information : N	lo data available			
15. Regulatory information				
15.1. Safety, health and environment	al regulations/legislation specific for th	e substance or mixture		
This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.				
Other regulations				
Observe work restrictions regard	ing maternity protection in accordance to	Dir 92/85/EEC or stricter		
national regulations where applicable.				
T = 1 ($D = 0.1/22/T = 0.1$				

Take note of Dir 94/33/EC on the protection of young people at work.

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this substance.

16. Other information

Abbreviations and acronyms :

PBT : persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Further information : None.

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Email : info@molychem.net Works: Plot No. B/9, Badlapur M.I.D.C.,OPP.Shobhavat Textile Co., Kulgaon, Badlapur (E), Dist.-Thane-421 503
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